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<b>O I P E TRANSMITTAL FORM</b> AUG 15 2007 (to be used for all correspondence after initial filing)		Application Number <b>10/776,424</b>
		Filing Date <b>February 11, 2004</b>
		First Named Inventor <b>Gorsuch et al.</b>
		Art Unit <b>2617</b>
		Examiner Name <b>Joy Kimberly Contee</b>
Number of Pages in This Submission		Attorney Docket Number <b>TAN-2-1401.06.US</b>

<b>ENCLOSURES</b> <i>(Check all that apply)</i>		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____  <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):  <b>Form PTO-1449 (2) two pages with 24 references cited.</b>
Remarks		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Joseph P. Gushue		
Date	August 9, 2007	Reg. No.	59,819

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	
Typed or printed name	Joseph P. Gushue
Date	August 9, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



## In the PATENT APPLICATION of:

Gorsuch et al.

**Application No.:** 10/776,424**Confirmation No.:** 2889**Filed:** February 11, 2004For: DYNAMIC BANDWIDTH ALLOCATION  
TO TRANSMIT A WIRELESS PROTOCOL  
ACROSS A CODE DIVISION MULTIPLE  
ACCESS (CDMA) RADIO LINK

Group: 2617

Examiner: Joy Kimberly Contee

Our File: TAN-2-1401.06.US

Date: August 9, 2007

## INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

08/15/2007 AAHHADI 00000015 090435 10776424  
01 FC:1806 180.00 DA

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56,  
Applicants wish to bring to the Examiner's attention the material cited on the enclosed  
Form PTO-1449.

The listed references include references previously cited in this application.

Newly cited documents are indicated by an asterisk (\*) on the enclosed Form PTO-1449. Copies of the newly cited documents are enclosed. Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the newly cited U.S. publications and/or patent documents have not been included.

This Information Disclosure Statement is being filed with the fee required by 37

**Applicants: Gorsuch et al.**  
**Application No.: 10/776,424**

C.F.R. § 1.17(p).

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the Form PTO-1449 indicating his consideration of the cited materials.

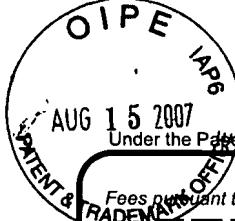
Respectfully submitted,

Gorsuch et al.

By Joseph P. Gushue  
Joseph P. Gushue  
Registration No. 59,819  
(215) 568-6400

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JPG/ci  
Enclosures



Express Mail No.

PTO/SB/17 (01-06)

Approved for use through 07/31/2006.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2006

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$)  
**180.00**

**Complete if Known**

Application Number	10/776,424
Filing Date	February 11, 2004
First Named Inventor	Gorsuch et al.
Examiner Name	Joy Kimberly Contee
Art Unit	2617
Attorney Docket No.	TAN-2-1401.06.US

**METHOD OF PAYMENT** (check all that apply)

Check  Credit Card  Money Order  None  Other (please identify): \_\_\_\_\_  
 Deposit Account Deposit Account Number: **09-0435** Deposit Account Name: **InterDigital Communications Corporation**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Charge fee(s) indicated below, except for the filing fee  
 Charge any additional fee(s) or underpayments of fee(s)  Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION** (All the fees below are due upon filing or may be subject to a surcharge.)**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

<b>Application Type</b>	<b>FILING FEES</b>		<b>SEARCH FEES</b>		<b>EXAMINATION FEES</b>		
	<b>Fee (\$)</b>	<b>Small Entity</b> <b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Small Entity</b> <b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Small Entity</b> <b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

	<b>Small Entity</b> <b>Fee (\$)</b>
Each claim over 20 (including Reissues)	50 25
Each independent claim over 3 (including Reissues)	200 100
Multiple dependent claims	360 180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>
	= _____	x _____	= 0	<b>Fee (\$)</b> <b>Fee Paid (\$)</b>

HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
	= _____	x _____	= 0		

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 100 =	/ 50 =	(round up to a whole number) x		=

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): **Supplemental Information Disclosure Statement****Fees Paid (\$)**

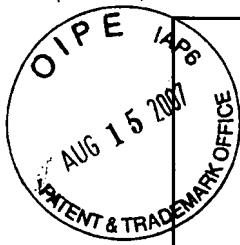
\$180.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 59,819	Telephone 215-568-6400
Name (Print/Type)	Joseph P. Gushue		Date August 9, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. TAN-2-1401.06.US	SERIAL NO. 10/776,424
		APPLICANT Gorsuch et al.	
		FILING DATE February 11, 2004	GROUP 2617

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
*		4,107,469	08/15/1978	Jenkins			
*		4,577,316	03/18/1986	Schiff			
*		4,625,308	11/25/1986	Kim et al.			
		4,675,863	06/23/1987	Paneth et al.			
		4,817,089	03/28/1989	Paneth et al.			
		4,841,526	06/20/1989	Wilson et al.			
*		4,862,453	08/29/1989	West et al.			
*		4,866,709	09/12/1989	West et al.			
		4,912,705	03/27/1990	Paneth et al.			
		4,949,395	08/14/1990	Rydbeck			
		5,022,024	06/04/1991	Paneth et al.			
*		5,027,348	06/25/1991	Curry			
		5,027,400	06/25/1991	Baji et al.			
		5,114,375	05/19/1992	Wellhausen et al.			
*		5,115,309	05/19/1992	Hang			
		5,226,044	07/06/1993	Gupta et al.			
*		5,268,900	12/07/1993	Hluchyj et al.			
		5,282,222	01/25/1994	Fattouche et al.			
		5,325,419	06/28/1994	Connolly et al.			
		5,355,374	11/11/1994	Hester et al.			
		5,373,502	12/13/1994	Turban			
*		5,375,124	12/20/1994	D'Ambrogio, et al.			
*		5,388,102	02/07/1995	Griffith et al.			
*		5,394,473	02/28/1995	Davidson			
		5,412,429	05/02/1995	Glover			

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE February 11, 2004	GROUP 2617
(Use several sheets if necessary)			

		5,442,625	08/15/1995	Gitlin et al.			
*		5,463,629	10/31/1995	Ko			
		5,471,463	11/28/1995	Hulbert			
		5,585,850	12/17/1996	Schwaller			
		5,592,470	01/04/1997	Rudrapatna et al.			
		5,592,471	01/07/1997	Briskman			
*		5,606,580	02/25/1997	Mourot et al.	Corresponds to 0635949EP		
		5,617,423	04/01/1997	Li et al.			
		5,642,348	06/24/1997	Barzegar et al.			
		5,655,001	08/05/1997	Cline et al.			
		5,657,358	08/12/1997	Panech et al.			
*		5,663,958	09/02/1997	Ward			
		5,663,990	09/02/1997	Bolgiano et al.			
		5,673,259	09/30/1997	Quick, Jr.			
		5,687,194	11/11/1997	Paneth et al.			
		5,697,059	12/09/1997	Carney			
*		5,699,364	12/16/1997	Sato et al.			
		5,734,646	03/31/1998	I et al.			
*		5,781,542	07/14/1998	Tanaka et al.			
		5,784,406	07/21/1998	DeJaco et al.			
		5,790,551	08/04/1998	Chan			
		5,793,744	08/11/1998	Kanerva et al.			
		5,802,465	09/01/1998	Hamalainen et al.			
*		5,825,807	10/20/1998	Kumar			
		5,828,659	10/27/1998	Teder et al.			
		5,828,662	10/27/1998	Jalali et al.			
		5,844,894	12/01/1998	Dent			

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		FILING DATE February 11, 2004	GROUP 2617

	*	5,845,211	12/01/1998	Roach			
	*	5,854,786	12/29/1998	Henderson et al.			
		5,856,971	01/05/1999	Gitlin et al.			
		5,859,840	01/12/1999	Tiedemann, Jr. et al.			
	*	5,859,879	01/12/1999	Bolgiano et al.			
		5,872,786	02/16/1999	Shobatake			
		5,881,060	03/09/1999	Morrow et al.			
		5,896,376	04/20/1999	Alperovich et al.			
		5,910,945	06/08/1999	Garrison et al.			
		5,914,950	06/22/1999	Tiedemann, Jr. et al.			
		5,923,650	07/13/1999	Chen et al.			
		5,930,230	07/27/1999	Odenwalder et al.			
		5,950,131	09/07/1999	Vilmur			
		5,956,332	09/21/1999	Rasanen et al.			
		5,966,374	10/12/1999	Rasanen			
		5,991,279	11/23/1999	Haugli et al.			
	*	6,001,800	12/14/1999	Mehta et al.			
		6,002,690	12/14/1999	Takayama et al.			
	*	6,009,106	12/28/1999	Rustad et al.			
		6,005,855	12/21/1999	Zehavi et al.			
		6,011,800	01/04/2000	Nadgauda et al.			
	*	6,028,853	02/22/2000	Haartsen			
		6,028,868	02/22/2000	Yeung et al.			
	*	6,052,385	04/18/2000	Kanerva et al.			
		6,064,678	05/16/2000	Sindhushayana et al.			
		6,069,883	05/30/2000	Ejzak et al.			
		6,078,572	06/20/2000	Tanno et al.			
		6,081,536	06/27/2000	Gorsuch et al.			
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		6,088,335	07/11/2000	I et al.			
*		6,097,733	8/01/2000	Basu et al.			
*		6,111,863	08/29/2000	Rostoker et al.			
		6,112,092	08/29/2000	Benveniste			
		6,134,233	10/17/2000	Kay			
*		6,151,332	11/21/2000	Gorsuch et al.			
		6,157,619	12/05/2000	Ozluturk et al.			
		6,161,013	12/12/2000	Anderson et al.			
		6,196,362	02/27/2001	Darcie et al.			
*		6,198,723	03/06/2001	Parruck et al.			
		6,208,871	03/27/2001	Hall et al.			
		6,215,798	04/10/2001	Carneheim et al.			
		6,222,828	04/24/2001	Ohlson et al.			
*		6,236,647	05/22/2001	Amalfitano			
		6,243,372	06/05/2001	Petch et al.			
		6,259,683	07/10/2001	Sekine et al.			
		6,262,980	07/17/2001	Leung et al.			
		6,269,088	07/31/2001	Masui et al.			
		6,272,168	08/07/2001	Lomp et al.			
		6,285,665	09/04/2001	Chuah			
		6,307,840	10/23/2001	Wheatley III et al.			
		6,310,859	10/30/2001	Morita et al.			
		6,366,570	04/02/2002	Bhagalia			
*		6,370,117	04/09/2002	Koraitim et al.			
		6,373,830	04/16/2002	Ozluturk			
		6,373,834	04/16/2002	Lundh et al.			
		6,377,548	04/23/2002	Chuah			
		6,377,809	04/23/2002	Rezaifar et al.			
EXAMINER				DATE CONSIDERED			

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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1401.06.US</p> <p>APPLICANT Gorsuch et al.</p>	<p>SERIAL NO. 10/776,424</p>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE February 11, 2004	GROUP 2617
(Use several sheets if necessary)		

## OTHER DOCUMENTS

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1005.

EXAMINER	DATE CONSIDERED
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	FILING DATE February 11, 2004	GROUP 2617

	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996.
	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
	Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996.
	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241.
	Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181.
	Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995.
	Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03).
	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
	Packet Data Service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996.
	Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995.
	Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999.
	Network Wireless Systems Offer Business Unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996.
	Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf</a> , 1998).

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	Draft Text for “*95C” Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf</a> ).
	Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699.
	Hindelang et al., Using Powerful “Turbo” Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653.
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